KANSAS DEPARTMENT OF REVENUE

PROJECT 2010

FEASIBILITY STUDY REPORT

APPENDIX B

MARKETPLACE ANALYSIS

APPENDIX B Marketplace Analysis

Introduction

The Kansas Division of Motor Vehicles has conducted a marketplace analysis of other state systems to provide needed information for its further study, evaluation, and determination of available and viable solution choices for replacement of its Vehicle Titling and Registration (VIPS), Vehicle Inventory (KVIS), and Drivers Licensing (KDLS) systems. As a basis for determining applicability to Kansas, candidate solutions were considered "viable" if they were developed within the last 3 years.

The objectives of this analysis were:

- To determine the characteristics of other State systems currently in production, including the age of the system, the computing platform(s), the relative size, and how their systems were implemented
- To determine the solution approach taken by other States who have implemented systems within the last 3 years
- To determine what commercially available product choices, or other state solutions, are available and applicable for the Kansas environment

The following sections of this document describe the approach taken, the findings, and conclusions that are the result of this study.

Approach

The approach taken for this study was to gather as much relevant information as possible from as many states as could be reached, regardless of the characteristics of their systems. From this, we were able to narrow further information gathering from those states who participated in the American Association of Motor Vehicle Administrators (AAMVA) survey.

Information was gathered through a variety of methods, and included state website research, telephone contact, information provided directly from AAMVA and from an on-line survey sponsored by AAMVA.

AAMVA is a state-based, non-profit association representing motor vehicle agency administrators and senior law enforcement officials in North America. Their members are recognized experts who administer the laws governing motor vehicle operation, driver credentialing, and highway safety enforcement. They have a broad perspective of what state solutions are in place and what states have recently replaced or are currently replacing their systems, and were particularly helpful in our information gathering activity.

Findings

Information has been gathered from 25 states ranging in size from the smallest, Montana, with 162,000 licensed drivers and 1,750,000 registered vehicles to the largest, Florida, with over 15,000,000 licensed drivers and 20,000,000 vehicles. Systems currently in production range in age from 1 to 30+ years. Older systems have been developed and run predominantly in mainframe environments, while newer systems, currently in production, have been developed predominantly in a web-browser based user interface.

All state systems have either been custom developed, using in-house staff, contractor staff, or both, or have been implemented from a commercially available "core" package product, typically requiring customization to their state environment. More recently

implemented systems, applicable to Kansas, have been developed from a "core" package.

Of particular relevance to Kansas, of the 25 states providing information about their systems, 16 states have either recently implemented new Driver's License or Vehicle Registration and Titling systems, or are in the process of acquiring and implementing new systems.

- States who have recently implemented new systems are:
  - Colorado
  - Indiana
  - Iowa

- States currently implementing new systems are:
  - Louisiana
  - Michigan
  - Montana
  - Pennsylvania
  - Tennessee
  - Vermont

- States currently developing requirements or issuing RFP's are:
  - Arizona
  - California
  - Connecticut
  - Idaho
  - Missouri
  - Rhode Island
  - West Virginia

The following table summarizes specific activities in those states that have either recently implemented new systems or are in the process of acquiring and/or implementing new systems.

State	Recent Activity
Arizona	In the process of doing an RFP for a needs assessment. The needs assessment was a requirement of the legislature, they hope it will lead to getting the approval for a new system in the very near future.
California	They have embarked on a multiyear, technology-upgrade effort to modernize their aging, custom-developed core systems with updated alternatives. The Information Technology Modernization Project will incrementally deploy solutions over a period of six years. RFP is currently out for response from vendors.
Colorado	Awarded in October 2002 to Avanade - a joint venture of Microsoft and Accenture - have deployed the system at their headquarters office (Sep 2006). They're a county based system for title and reg and are in the process of developing the RFP to roll the system out to the 64 counties.
Connecticut	RFP was issued and currently negotiating with vendor for a new Real Time On-line Registration System (RTOL) that will modernize both Business Process and Technology, focusing on certain Core Registration Business Functions and legacy systems interface.
Idaho	IBM has been there since Aug 2006 helping to build requirements to get to an RFP. Looking to a Purchased Software Package – With Customization. Have been trying to do something for 6 years.
Indiana	Indiana has recently implemented new systems using the Unisys customized package in a .net environment.
Iowa	Iowa believes this was the initial development of the product which Archon (3M) now markets. With that, they believe their system to be closer to a Custom Build than an Off-The-Shelf with customization. Cost for both systems approx. $40 million. The initial contract was done under a sole-source. An RFP is currently out for vendor response for enhancements to the vehicle system. During the design phase, for 15 months, the SME's from the counties came in monthly for a week at a time to participate in the business function definition and design; it is felt that this approach was central to the success of the project as the external partner's SME's are on board and advocates of the systems; might have been less expensive to not have this level of involvement but county SME's were seen as a key to success.
Louisiana	Replacement systems to implement Summer of 2008. IBM did a Feasibility Study which included a cost estimate. The Unisys contract awarded at a price under the cost estimate. The Unisys contract is a Fixed fee at $26 Million. Project is taking longer than expected and LA believes that Unisys is losing money to the tune of appox. $9 Million.
Michigan	In the process of a major upgrade to a .Net environment using EDS for staffing. Project budget is approx. $50 Million.
Missouri	Currently has an RFP out for vendor response.
Montana	Is currently in the process of developing and implementing the Archon (3M) package.
Pennsylvania	Is in the process of developing new systems which will also be Custom Build - contacted, with Deloitte Consulting as the general contractor.
Rhode Island	Currently has an RFP out for vendor response.
Tennessee	Recent Vehicle Registration and Titling system work by Saber. The only contact which could be developed was with the former MVD director who is now employed by Saber.
Vermont	New systems in development with Saber. Have completed business functional requirements for both systems. New system to implement in 2008.

The following table represents a summary of the detailed information gathered. It provides both an "at a glance" state by state comparison of solutions implemented and a summary description of system age, system size, implementation method, platform, and data sharing information.

State	System Age	Number of Vehicles	Drivers	Implementation Method	Computing platform(s)	Shared Data
Arizona	V 34 yrs	6,448,633		Customized(A)	Mainframe	Yes
California	V > 3 yrs	33,363,963		Customized(A)	Mainframe	Yes
Colorado	V < 1 yr D 12 yrs	3,000,000	3,500,000	D Customized(A) V Customized(B)	V .Net; D Mainframe	No
Connecticut	V > 3 yrs	3,000,000 +		Customized(A)		Yes
Florida	D < 3 yrs V > 3 yrs	20,179,496	15,500,000	D Customized(B) V Customized(A)	Mainframe	Yes
Hawaii	V > 3 yrs	1,159,256				
Idaho	V 23 yrs	1,600,000		Customized(A)	Mainframe	No
Illinois	V 6 yrs	10,000,000 - 12,000,000		Other - Combination of COTS, Customized(A) & (B)		Minimal
Indiana	Both 1-6 yrs	7,500,000	2,300,000	Package	.Net	Yes
Iowa	V 2 yrs D in 2007	4,000,000	2,000,000	Package	.Net	Yes
Kentucky	V 25+ yrs	3,500,000		Customized(A)	Mainframe	No
Louisiana	Both 35+ yrs	5,000,000 - 6,000,000	3,000,000 - 3,500,000	Customized(A)	Mainframe	No
Michigan	Both 35+ yrs, last 10 yrs	19,000,000 - 20,000,000	9,000,000	Customized(A)	Mainframe	No
Missouri	< 3 yrs	4,460,081	6,970,347	Customized(A)	Mainframe	No
Montana	< 3 yrs	1,750,000 +	162,000 +	Package	.NET	Yes
Nebraska	Both > 3 yrs	2,119,094	1,350,983	Customized(A)	Mainframe	No
New Mexico	V > 3 yrs	1,800,000-1,900,000		Customized(A)	.Net	No
Ohio	V < 3 yrs	12,017,517		Customized(A)	.NET	No
Oregon	D > 3 yrs		2,919,822	Customized(A)	Mainframe	Yes
Pennsylvania	V 20 yrs D 16 yrs	11,000,000	8,500, 000 plus 400,000 - 500,000 picture ID's	Customized(B)	Mainframe	No
South Dakota	D > 3 yrs		577,000	Customized(A) + Package	Mainframe	
Texas	V > 3 yrs	20,100,000		Customized(A)	Client server	No
Utah	V > 3 yrs	2,200,000		Package	Mainframe	No
Vermont	Both 30+ yrs	600,000 - 700,000	450,000 - 600,000	Customized(B)	Mainframe	No
West Virginia	V 10 yrs D 16 yrs	1,800,000	1,329,000	Customized(A)	Mainframe	No

D indicates it is for the Drivers License System
V indicates it is for the Vehicle Registration and Titling System
Customized(A) is an In-House Development
Customized(B) is a Contracted or Outsourced Development
Package is modified or customized package

Conclusion

A majority of the States we have contacted have either recently replaced or are in the process of replacing their systems. Of those, most states, having recently implemented a new system, have acquired a "core" package solution with a level of customization required to fit the specific requirements of their state environment. This appears to be the preferred approach, as those states have indicated no dissatisfaction either with the product or with the provider company through all phases of their development project; and all states believe that one of the key success factors was the system framework their vendor brought to the engagement. There are several commercially available products that are candidates to replace the VIPS, KDLS, and KVIS systems in Kansas.

During this feasibility study the software vendors in the marketplace were:

COMPANY	PRODUCT	CURRENT STATE INVOLVEMENT
Archon Technologies, Inc. (acquired by 3M) 9000 East Nichols Avenue, Suite 200 Englewood, Colorado 80112	Archon Registration & Titling Solution (ARTS) Archon Driver Solution (ADS) Archon Transaction Money Manager (ATM^2)	Iowa Montana
Saber Corp. 1800 SW First Avenue, Suite 350 Portland, Oregon 97201	Motor Vehicle System Drivers License System	Vermont Tennessee
Unisys Corporate Headquarters Unisys Way Blue Bell, Pennsylvania 19424	Unisys Motor Vehicle Solution (U/MVS)	Louisiana Indiana completed in July 2006

Acquisition of a "core" package product solution is a viable solution choice recommended for further evaluation.

Reference Information

The tables that follow reflect the detailed contact and other reference information gathered during the course of this study. Study findings have been compiled from this data.

State	Arizona
Source of Information	AAMVA Vehicle Survey
Contact	Rita Skiye 602-712-7026 rskiye@azdot.gov
System Age	> 3 years
Number of registered vehicles or drivers	Vehicles - 6,448,633
Implementation Method	Custom Build – in-house
Computing platform(s)	The Arizona Title and Registration system is mainframe based. We have an IMS database and use PL/1 as our programming language
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Driver License; ARMANI - Fee Accounting; Mandatory Insurance; Abandoned Vehicle Service; Arizona - E-Government applications; Targats - Revenue Accounting
If purchased software package, indicate company and product	
Notes	The Arizona system was built in 1973. We are in the process of doing an RFP for a needs assessment. The needs assessment was a requirement of the legislature and we hope it will lead to getting the approval for a new system in the very near future.

State	California
Source of Information	AAMVA Vehicle Survey
Contact	Janet Okino
System Age	> 3 years
Number of registered vehicles or drivers	Vehicles - Fee Paid Currently registered 32,849,650; Exempt Plates 514,313; Total 33,363,963
Implementation Method	Custom Build – in-house
Computing platform(s)	IBM Mainframe model 2094-407
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Since the California Department of Motor Vehicles core business is to register and title vehicles, license drivers and vehicle related occupations, virtually all mission critical and supporting systems share common data elements, such as name and address
If purchased software package, indicate company and product	
Notes	California's custom developed database management system and transaction processing monitor were developed in the early 70's and are still in operation today. The department is embarking on a multiyear, technology-upgrade effort to modernize its aging, custom-developed core systems with updated alternatives that are broadly supported by the Information Technology industry. The Information Technology Modernization Project will incrementally deploy a solution over a period of six years that will migrate the databases to DB2 and consolidate transaction processing to CICS and IBM Websphere.

State	Colorado
Source of Information	Call and/or E-Mail
Contact	Pat Chase Vehicle Reg Proj Mgr Bruce Lowson Drives Lic Dev Mgr
System Age	Vehicle < 3 years; Sep 2006 in Central Office Drivers > 3 years; 1995 with no plans for upgrade
Number of registered vehicles or drivers	Vehicle - 3,000,000 Drivers - 3,500,000
Implementation Method	Drivers - Custom Build - in-house Vehicles - Custom Build - contracted, or outsourced
Computing platform(s)	Vehicle .Net; C-Sharp; SQL2000; Windows 2003 Server; Multiple HP Servers Drivers Natural Adabase; Cobol; CICS
Sharing of common data especially between Driver's Licensing & Vehicle Registration	No Data sharing between Vehicle & Drivers Some data exchange to Law Enforcement; Insurance; Governmental
If purchased software package, indicate company and product	Vehicle - Avanade has plans to market the product developed in Colorado (according to the CO folks)
Notes	They originally issued their RFP in October 2001 hoping to find an existing system they could customize. Couldn't find one that closely enough met their requirements, so they started from the ground up. Awarded in October 2002 to Avanade - a joint venture of Microsoft and Accenture - have deployed the system at their headquarters office (Sep 2006). They're a county based system for title and reg and are in the process of developing the RFP to roll the system out to the 64 counties. They do not have any plans for imaging T&R documents in the field at this time.

State	Connecticut
Source of Information	AAMVA Vehicle Survey
Contact	Nicholas J. Demetriades Information Technology Manager 3 CT Department of Motor Vehicles 60 State Street Wethersfield, CT 06109 (860) 263-5348 njd@ct.gov
System Age	> 3 years New system in the works
Number of registered vehicles or drivers	Approx. 3 million (+) Active Vehicle Registrations Registration File contains over 8 million registration records including but not limited to the following categories: Active, Cancelled, Cross Reference, and Expired.
Implementation Method	Custom Build – in-house
Computing platform(s)	Architecture to be determined, assessing business requirements, continuity and contingency needs
Sharing of common data especially between Driver's Licensing & Vehicle Registration	
If purchased software package, indicate company and product	
Notes	Comments: RFP was issued and currently negotiating with vendor for a new Real Time On-line Registration System (RTOL) that will modernize both Business Process and Technology, focusing on certain Core Registration Business Functions and legacy systems interface. All systems and sub systems will share customer information. Business requirements and possible technology solutions currently under review

State	Florida
Source of Information	Both AAMVA Surveys & Call and/or E-Mail
Contact	Drivers - Michael McCaskill Mike McCaskill mccaskill.michael@hsmv.state.fl.us (850)617-2702 Vehicle - Leslie Langston, Management Analyst Division of Motor Vehicles (850)617-2902 langston.leslie@hsmv.state.fl.us
System Age	Drivers - < 3 years Vehicle - > 3 years
Number of registered vehicles or drivers	Drivers - 15,500,000 Vehicles - 20,179,496
Implementation Method	Custom Build - contracted, or outsourced
Computing platform(s)	Drivers - Oracle; Mainframe & Server Vehicle - Oracle
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Drivers - Motor vehicle title and registrations. Vehicles - Driver's License; Law Enforcement; National Motor Vehicle Title Information System
If purchased software package, indicate company and product	
Notes	Comments: Our system is custom and uses both in-house and contracted resources. Our software is handled in-house while the hardware is contracted. Digimarc is the primary contractor

State	Hawaii
Source of Information	AAMVA Vehicle Survey
Contact	Dennis Kamimura Further contact Preston Ko, Data Processing Program Manager 808-768-7608 pko@honolulu.gov
System Age	> 3 years
Number of registered vehicles or drivers	Vehicles - 1,159,256
Implementation Method	
Computing platform(s)	
Sharing of common data especially between Driver's Licensing & Vehicle Registration	
If purchased software package, indicate company and product	
Notes	

State	**Idaho**
Source of Information	Call and/or E-Mail
Contact	Amy Smith Veh Svc Mgr
System Age	> 3 years; Approx. 1983 (23 years)
Number of registered vehicles or drivers	Vehicle - 1,600,000
Implementation Method	Custom Build - in-house
Computing platform(s)	Datapoint at the county sites Mainframe CICS at the central site
Sharing of common data especially between Driver's Licensing & Vehicle Registration	No Data Sharing
If purchased software package, indicate company and product	
Notes	IBM has been there since Aug 2006 helping to build requirements to get to an RFP. Looking to a Purchased Software Package – With Customization. Have been trying to do something for 6 years

State	**Illinois**
Source of Information	Call and/or E-Mail
Contact	Ernie Dannenberger Dep Director Veh Svc
System Age	>3 years; underlying system arch is very old mainframe; newest piece was implemented in 2001
Number of registered vehicles or drivers	Vehicle - 10,000,000 - 12,000,000
Implementation Method	Other - Combination of COTS customized and all forms of custom build
Computing platform(s)	
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Minimal data sharing; described as hit and miss
If purchased software package, indicate company and product	Have used Unisys for some development work
Notes	

State	Indiana
Source of Information	Call and/or E-Mail
Contact	Mary Wilson
System Age	< 3 years (Start Nov 2000 - Jul 2006) Systems replace ranged in age from 15-30 years in 2000
Number of registered vehicles or drivers	Vehicles - 7,500,000 Drivers - 2,300,000
Implementation Method	Purchase Software Package - Customized
Computing platform(s)	.Net Visual basic SQL Server
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Data is shared across multiple systems System is customer centric Based upon a Customer Record
If purchased software package, indicate company and product	Unisys
Notes	They had limited numbers of and weak SME's, this significantly impacted both development and implementation. It was suggested to increase the time estimates the software providers give for testing and conversions (quadruple).

State	Iowa
Source of Information	Call and/or E-Mail
Contact	Shirley Andrea Dir Motor Veh Div
System Age	< 3 years; Vehicle Jan/2005, Drivers will implement in May/2007
Number of registered vehicles or drivers	Vehicles - 4,000,000 Drivers - 2,000,000
Implementation Method	Purchase Software Package - Customized
Computing platform(s)	Visual Basic; .Net; SQL Server; C-Sharp; Processing at remote site is real-time
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Data is shared across multiple systems System is customer centric Based upon a Customer Record
If purchased software package, indicate company and product	Archon - 3M
Notes	Iowa believes this was the initial development of the product which Archon (3M) now markets; So They believe it to be closer to a Custom Build than an Off-The-Shelf with customization; During the design phase, for 15 months, the SME's from the counties came in monthly for a week at a time to participate in the business function definition and design; it is felt that this approach was central to the success of the project as the external partner's SME's are on board and advocates of the systems; might have been less expensive to not have this level of involvement but county SME's were seen as a key to success. Cost of the systems about $40 million. Iowa is currently acquiring technical support for development of its next software release.

State	Kentucky
Source of Information	Call and/or E-Mail
Contact	Willie Payton Asst Dir DMV
System Age	> 3 years; Original in early 1980's routine updates & maintenance
Number of registered vehicles or drivers	Vehicle - 3,500,000
Implementation Method	Custom Build - in-house
Computing platform(s)	IBM Mainframe; COBOL; DB2; CICS Some front-end migration to .Net
Sharing of common data especially between Driver's Licensing & Vehicle Registration	No data sharing
If purchased software package, indicate company and product	
Notes	Covansys (Precursor to Saber) in 1999/2000 was contracted to gather requirements & prepare initial system design $1.9 Million. Budget issues resulted, so a lesser project was completed initiated for $9.2 Million. KY was pleased with Covansys. The reason for the change was maintenance costs. $3 Million currently opposed to $9-12 Million in the proposed system.

State	Louisiana
Source of Information	Call and/or E-Mail
Contact	Jack Green IT Dep Dir
System Age	> 3 years; 1970's Replacement systems to implement Summer of 2008
Number of registered vehicles or drivers	Vehicles - 5,000,000 - 6,000,000 Drivers - 3,000,000 - 3,500,000
Implementation Method	Current Systems are Custom Build - in-house New systems will be Purchased Software Package - With Customization
Computing platform(s)	.Net; SQL Server Real-time updating in the Parishes (Counties); Currently have Mainframe with Frame Relay statewide new system will require some site upgrades
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Data is shared across multiple systems System is customer centric Based upon a Customer Record
If purchased software package, indicate company and product	Unisys
Notes	IBM did a Feasibility Study which included a cost estimate; The Unisys contract awarded at a price under the cost estimate. The Unisys contract is a Fixed fee at $26 Million; Project is taking longer than expected.

State	Michigan
Source of Information	Call and/or E-Mail
Contact	Tess Layman Dir Application Dev
System Age	>3 years; early 1970's last major update in 1995; currently making significant modifications
Number of registered vehicles or drivers	Vehicles - 19,000,000 - 20,000,000 Drivers - 9,000,000
Implementation Method	Custom Build - in-house Current modifications are in-house with staff augmentation through EDS (50 Million budget)
Computing platform(s)	Visual Basic 6; Citrix Thin Client; Unisys Lebra Mainframe; DMS2
Sharing of common data especially between Driver's Licensing & Vehicle Registration	No data sharing; Big issue was the Name
If purchased software package, indicate company and product	Staff augmentation only
Notes	In process of a major upgrade to .Net environment using EDS for staff; $50 Million

State	Missouri
Source of Information	Both AAMVA Surveys
Contact	Drivers - Nicki Hollis for further info Brad Brester - (573) 526-3656 - Brad.Brester@dor.mo.gov Vehicles - Nicki Hollis for further info Jayne Wack (573) 751-3180 Jayne_Wack@dor.mo.gov
System Age	Drivers - < 3 years Vehicles - < 3 years
Number of registered vehicles or drivers	Drivers - 4,460,081 as of 9-15-2006 Vehicles - 6,970,347 as of 3/3/06
Implementation Method	Drivers - Custom Build – in-house Some was contracted for Over-the-counter License Issuance Vehicle - Custom Build – in-house Some was contracted or outsourced
Computing platform(s)	Drivers - IBM 2094-710 Mainframe System Vehicles - IBM ZOS Webshpere 5.1
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Drivers - None at this time Vehicles - Does not share with other systems
If purchased software package, indicate company and product	
Notes	

State	Montana
Source of Information	Call and/or E-Mail
Contact	From the website http://doj.mt.gov/driving/merlinproject/default.asp And an e-mail from Lisa Wanke
System Age	< 3 years
Number of registered vehicles or drivers	Montana has more than 1.75 million titled vehicles. Each year the Motor Vehicle Division: • titles 470,000 vehicles • registers 1 million vehicles • licenses more than 162,000 drivers
Implementation Method	Purchased Software Package – With Customization
Computing platform(s)	Windows based system using C sharp and .net programming, server based, and a MS squeal database Microsoft .NET – Software/Application Platform Windows XP/2003 – Operating System, Application Server Microsoft SQL Server – Database Platform Active Directory – Directory Service IIS – Web Server Windows XP – Application Developer Desktop
Sharing of common data especially between Driver's Licensing & Vehicle Registration	All MVD applications will use common data, moving to a common customer concept.
If purchased software package, indicate company and product	Archon - 3M
Notes	

State	Nebraska
Source of Information	Both AAMVA Surveys
Contact	Drivers - Sara O'Rourke 402/471-3861 sorourke@notes.state.ne.us Vehicles - Betty Johnson
System Age	Drivers - > 3 years Vehicles - > 3 years
Number of registered vehicles or drivers	Drivers - 1,350,983 licenses Vehicles - 2,119,094
Implementation Method	Drivers - Custom Build – in-house Vehicles - Custom Build – in-house
Computing platform(s)	Drivers - 3270 mainframe emulation sessions Vehicles - AS400 and Mainframe
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Drivers - AS400 for issuance Vehicles - None
If purchased software package, indicate company and product	
Notes	

State	New Mexico
Source of Information	Call and/or E-Mail
Contact	Keith Perry Dep Dir Motor Veh
System Age	Vehicle - > 3 years; 2000-2001
Number of registered vehicles or drivers	Vehicle - 1,800,000-1,900,000
Implementation Method	Vehicle - Custom Build - in-house
Computing platform(s)	Vehicle - Web browser (Windows) .Net SQL Server
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Vehicle - No Data Sharing; Some data interfacing of Drivers License data to law enforcement systems
If purchased software package, indicate company and product	
Notes	

State	Ohio
Source of Information	AAMVA Vehicle Survey
Contact	Robert Posey, Section Chief Support Services, Ohio BMV 614-752-6604 bposey@dps.state.oh.us
System Age	Vehicle - < 3 years
Number of registered vehicles or drivers	12,017,517
Implementation Method	Custom Build – in-house
Computing platform(s)	Ohio BMV's web-based system was built using the Microsoft .NET product suite running on a MS Windows 2003 Enterprise server architecture. The system is a 3-tier system, operating on three load balanced web servers, two application servers, two clustered SQL Server database servers and two print servers.
Sharing of common data especially between Driver's Licensing & Vehicle Registration	No data sharing between drivers licensing and vehicle registration.
If purchased software package, indicate company and product	
Notes	Ohio's Registration is for Registration only, Titling is separate and under the Ohio Clerk of Courts with oversight of the Ohio BMV. In addition, Ohio operator license is also under a separate system.

State	Oregon
Source of Information	AAMVA Drivers Survey
Contact	William Cohen for further info Lydia Beebe 503-945-8927 lydia.k.beebe@odot.state.or.us
System Age	Drivers - > 3 years
Number of registered vehicles or drivers	As of December 31, 2006, there were 2,919,822 holders of a valid Oregon driver license.
Implementation Method	Custom Build – in-house
Computing platform(s)	IBM Z/OS 390 mainframe; DB2 database
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Customer; Vehicles.
If purchased software package, indicate company and product	
Notes	

State	Pennsylvania
Source of Information	Call and/or E-Mail
Contact	Brent Bell, Dir of Information & Fiscal Services 717-787-7713 brenbell@state.pa.us
System Age	Vehicle > 3 years (1987) Driver > 3 years (1991-1992)
Number of registered vehicles or drivers	Vehicle - 11,000,000 Drivers - 8,500, 000 plus 400,000 - 500,000 of picture ID's
Implementation Method	Current Systems are Custom Build - contacted, or outsourced; New systems will also be Custom Build - contacted, or outsourced with Deloitte Consulting as the general contractor will use subs for DL (Digimarc) and Knowledge testing software.
Computing platform(s)	Current system - Mainframe, ZOS, IMS & DB2 New System - (Tentative) 2 Linux, Java, Webshpere
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Current systems - minimal data sharing; New systems - Shared data (Customer centric)
If purchased software package, indicate company and product	
Notes	

State	South Dakota
Source of Information	AAMVA Drivers Survey
Contact	Cindy Gerber 605-773-4846 cindy.gerber@state.sd.us
System Age	Drivers - > 3 years
Number of registered vehicles or drivers	Drivers - 577,000
Implementation Method	Custom Build – in-house with a package
Computing platform(s)	Unsure of question. Our mainframe is ADABASE, CICS.
Sharing of common data especially between Driver's Licensing & Vehicle Registration	
If purchased software package, indicate company and product	
Notes	

State	Texas
Source of Information	AAMVA Vehicle Survey
Contact	Frances Stastney For further info Tobe Hubbard Systems Management Vehicle Titles and Registration Division Texas Department of Transportation (512) 465-3687 thubbar@dot.state.tx.us
System Age	Vehicle - > 3 years; Orig in 1994; revised in 2002
Number of registered vehicles or drivers	20.1 million registered vehicles
Implementation Method	Custom Build – in-house
Computing platform(s)	Client server.
Sharing of common data especially between Driver's Licensing & Vehicle Registration	None
If purchased software package, indicate company and product	
Notes	

State	Utah
Source of Information	AAMVA Vehicle Survey
Contact	Kevin Park, 801-297-7670, kpark@utah.gov
System Age	Vehicle - > 3 years
Number of registered vehicles or drivers	Utah has approx 2.2 million vehicles registered
Implementation Method	Purchased Software Package – With Customization
Computing platform(s)	The application is developed with Powerbuilder The database is Oracle
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Our system is stand alone
If purchased software package, indicate company and product	AMS, the system is called MVA
Notes	

State	Vermont
Source of Information	Call and/or E-Mail & Both AAMVA Surveys
Contact	Howard Deal Dep Commissioner From Surveys - Ellen Hemond for further info Roger Boissonneau 802 828-2028 roger.boissonneau@state.vt.us Dave Pierson 802 828-5162 dave.pierson@state.vt.us
System Age	Current systems mid 1970's New systems in development Have completed business functional requirements for both systems
Number of registered vehicles or drivers	Vehicles - 600,000-700,000 (from survey 779,302) Drivers - 450,000 (from survey 589,424)
Implementation Method	Current system is Custom Build - contracted, or outsourced System under development is Purchase Software Package - Customized
Computing platform(s)	Current is mainframe New will be .Net front-to-back; SQL Server; Dell Servers not yet sized. From surveys Windows 2000/2003
Sharing of common data especially between Driver's Licensing & Vehicle Registration	Data is shared across multiple systems From Drivers Survey - vehicle registration, title, name file, suspensions, convictions, accidents, diesel and gas tax reporting, revenue From Vehicle Survey - Driver License, revenue, name file, suspensions, convictions, accidents, diesel and gas tax - essentially all the functions that we do at DMV are covered in our new system
If purchased software package, indicate company and product	Award was made to Covansys and during contract phase was purchased by Saber Corp.
Notes	Local consultant helped them build the statement of work for the RFP; There was no feasibility study or cost estimating From Vehicle Survey - We are approximately one year into this project with an estimated implementation date of April 2008 for the registration, title and customer functions.

State	West Virginia
Source of Information	Call and/or E-Mail
Contact	Will Thaxton IT Dir
System Age	> 3 years; last major updates in 1991 for Vehicles & 1997 for Drivers
Number of registered vehicles or drivers	Vehicles - 1,800,000 Drivers - 1,329,000
Implementation Method	Custom Build - in-house
Computing platform(s)	Large IBM Mainframe; VSAM for Vehicle & DB2 for Drivers
Sharing of common data especially between Driver's Licensing & Vehicle Registration	No data sharing
If purchased software package, indicate company and product	
Notes	Drivers License renewals are done at 23 regional sites real-time. Vehicle Registrations & Renewals are also done at the 23 regional sites BUT ALL ON PAPER which is then sent to a central office for data entry and processing. WV is in the process of replacing these systems (RFP to hit the street on or about 4/1/07).